

IPSAG Telecon

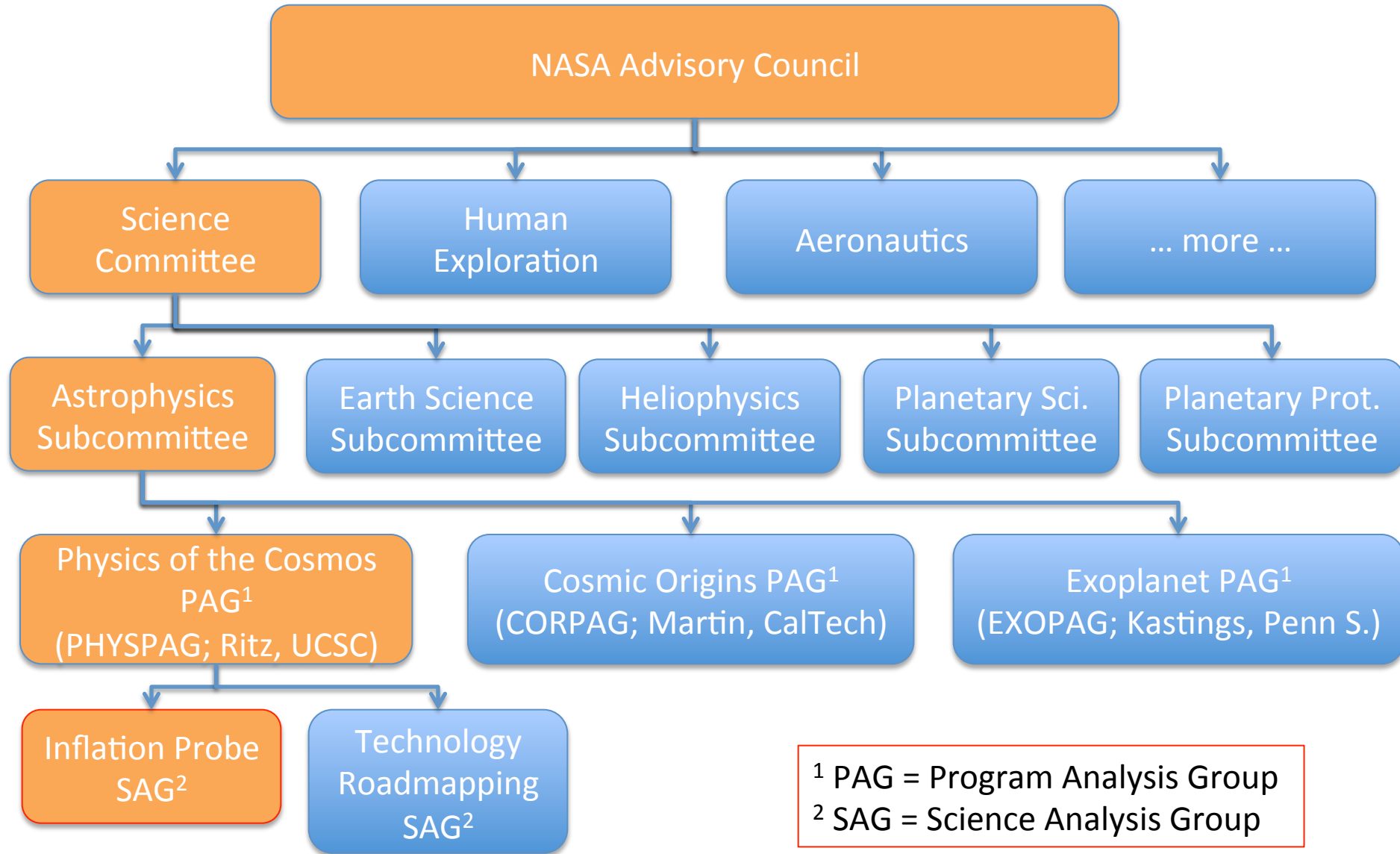
April 21, 2011

Shaul Hanany

Agenda

- Greetings (5 minutes)
- Background for IPSAG and connection to PhysPAG and APS (Shaul Hanany, 10 minutes)
- View from NASA HQ (Rita Sambruna, 5 minutes)
- PCOS Advanced Concepts and Technology Office (Jean Cottam + Jackie Townsend, 10 minutes)
- Summary of pre-decadal activities + view forward (Bock, 10 minutes)
- Discussion (20 minutes)
- Summary of discussion + Actions (5 minutes)

Background: Within NASA



Background: PAGs and SAGs

- PAGs: Provide technical analyses on specific topics to APS
 - PhysPAG:
 - Steve Ritz** (Chair) - University of California, Santa Cruz
 - Jason Rhodes** - Jet Propulsion Laboratory
 - Shaul Hanany** - University of Minnesota
 - Roger Brissenden** - Harvard-Smithsonian Center for Astrophysics
 - Liz Hays** - NASA Goddard Space Flight Center
 - Guido Mueller** - University of Florida

 - Rita Sambruna** (Executive Secretary, Ex-Officio) - NASA HQ
 - Jean Cottam** (PCOS Program Office, Ex-Officio) - NASA GSFC
- <http://pcos.gsfc.nasa.gov/phypag.php>
- PhysPAG meeting at American Physical Society (Anaheim),
Sunday May 1, 9 am – 2 pm

Background: PAGs and SAGs

- SAGs and IPSAG: Facilitate the work of the PAGs
 - Input on issues related to Inflation Probe
 - Input request can originate by APS, or PAG, or recommendation for action can originate from SAG
 - IPSAG: continuation of PPPDT, which organized the activities of the CMB community prior to decadal panel.
 - <http://pcos.gsfc.nasa.gov/sags/ipsag.php>

IPSAG Statement of Task

- Review and update mission science goals following current developments in the field (e.g. Planck, sub-orbital measurements),
- Review and update information about and requirements on potential foreground contaminants and their removal,
- Review and update requirements on and developments in control of systematic errors,
- Assess necessary technology developments and prioritize areas for increased technical emphasis.
- The IPSAG work will build upon pre-New Worlds and New Horizons community and agency investments as summarized by reports from NASA's 2009 Strategic Mission Concept Study and white papers submitted to NWNH.

The IPSAG (<http://pcos.gsfc.nasa.gov/ipsag.php>) is established under the auspices of NASA's Physics of the Cosmos Program Analysis Group (PhysPAG; <http://pcos.gsfc.nasa.gov/phypag.php>), which reports to the Astrophysics Subcommittee.

Tasks of the IPSAG include:

- Updating baseline mission parameters;
- Providing reports to the PhysPAG, to NASA's Astrophysics Subcommittee, and to other relevant committees;
- Maintaining contacts with European colleagues.

A member of the PhysPAG will serve as the liaison with the IPSAG.

Status in Europe

- Cosmic Origin Explorer (CORE) proposed to ESA as M-class (December 2010)
- ~\$180M in US participation over next ~10 years
- Proposal ranked high on science
- Not selected for Phase A study for cost and feasibility reasons

<http://www.core-mission.org>

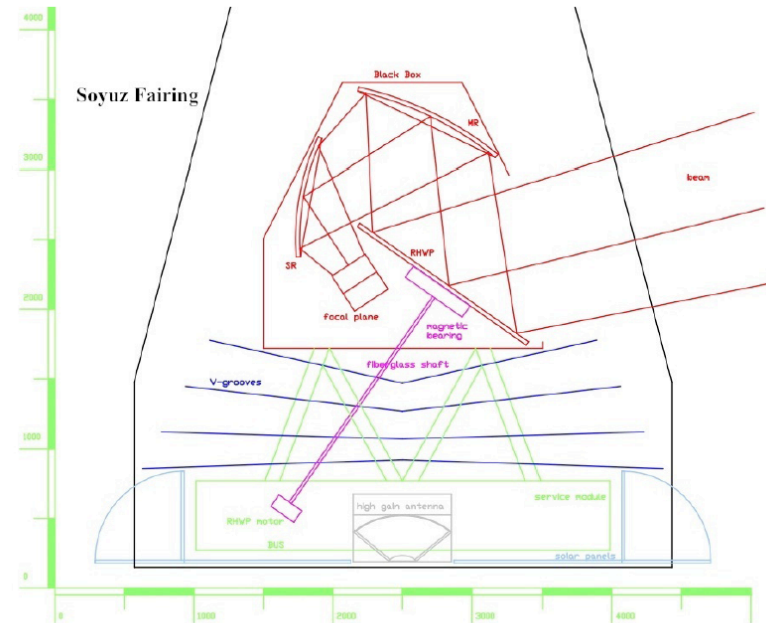


Figure 10: Fairing accommodation of *CORE*.